



Solving Problems in Wood

the
GAMBLE
STORY

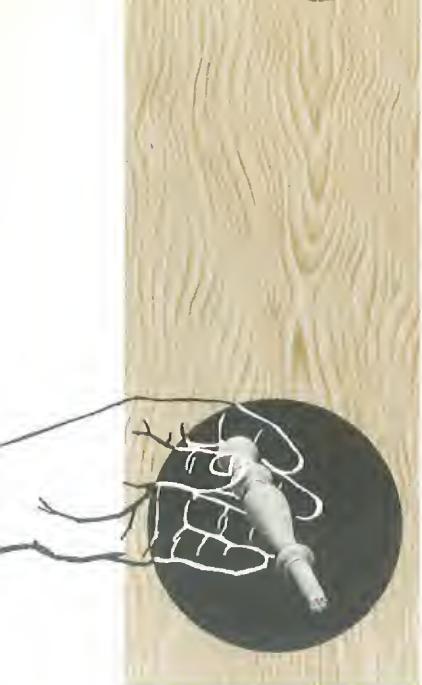
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The purpose of this book is to give you a "picture" of Gamble Brothers — its physical plant, its abilities, its products, its potentials for being *helpful to you*.

We think this book is the next-best thing to a personal visit. But it can't take the place of a visit. We welcome you to see our plant at any time. We want you to meet our people, and discuss your wood problems with our experienced wood engineers.



GAMBLE BROTHERS
4601 Allmond Avenue, Louisville 9, Kentucky
Telephone EMerson 6-0341



from small turnings to huge exterior

"If the problem involves wood, Gamble can help!" That's the Gamble story in a nutshell. Gamble Brothers is a service organization, processing lumber and veneer to its customers' exact requirements.

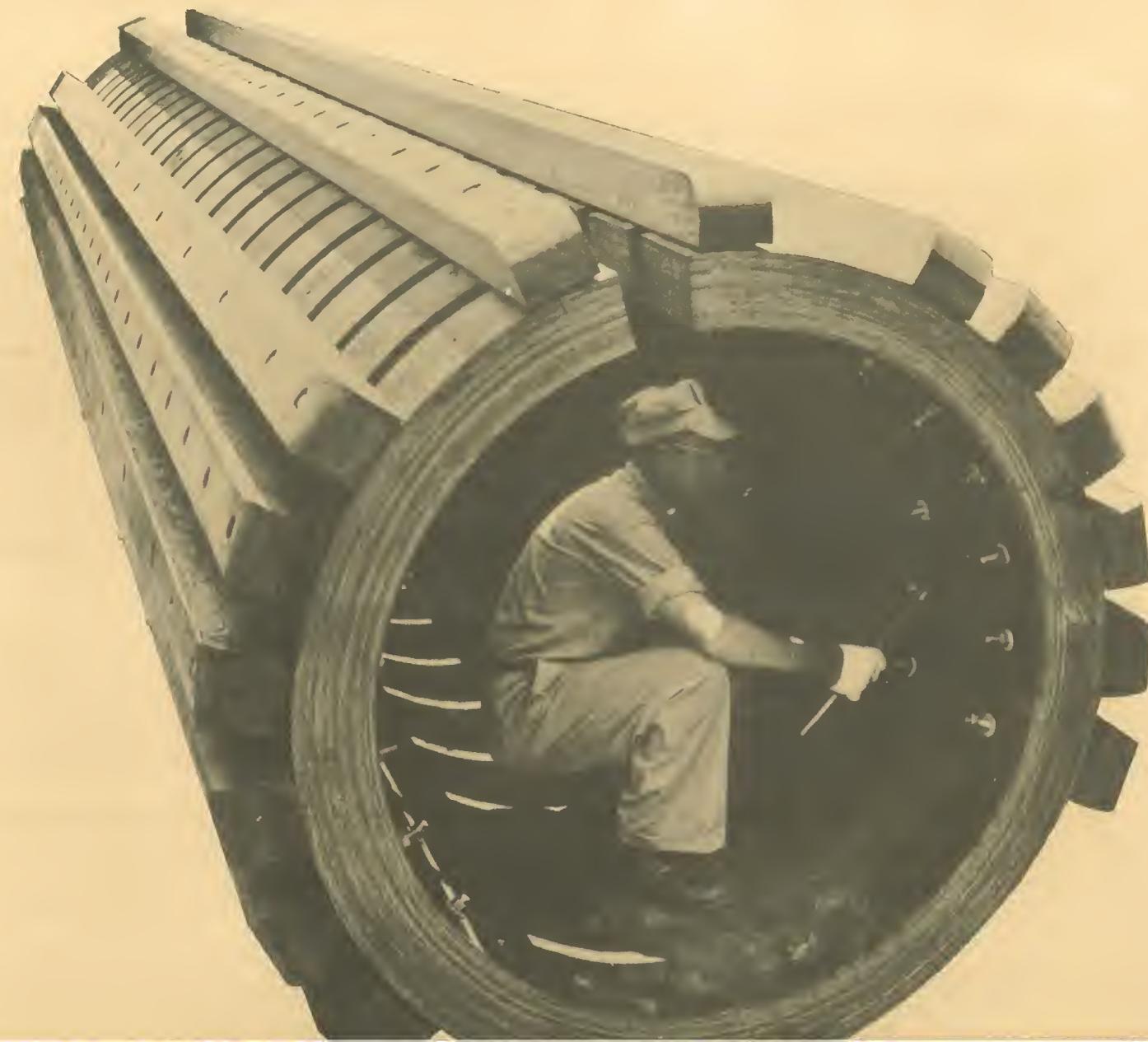
The product required may be edge-glued lumber for core-stock, school desks, table tops, or chests. It may be shelving or plastic-faced material. It may be a combination of wood and veneer or a combination of wood and other materials. In short, it may be *anything* involving wood!

If you have a wood problem of any kind, you can benefit from Gamble's 65 years of wood-engineering experience.

How can **GAMBLE BROTHERS** help you?

- Research to improve present wood products.
- Development of new wood products.
- Research in completely new kinds of materials used in conjunction with wood.
- Partially machined wood blanks.
- Especially designed wood parts.
- Completely machined wood parts.
- Laminates of wood and other materials.

laminates



Research and product development have been largely responsible for Gamble's wide reputation in the woodworking industry, not only in the United States but throughout many areas of the world. Gamble's very first research project—in the mid-1890's—was that of utilizing cut-to-length lumber. From this early Gamble idea came today's dimension lumber business.

In 1928, Gamble research produced a practical, positive method for end-joining woods. Many types of joints used today are merely variations of the original Gamble process.

During World War II, Gamble Brothers worked for three years under the Office of Product Research and Development

RESEARCH AND PRODUCT

of the War Production Board on critical items needed for military use. One of the results of this co-operative effort was a process for the laminating of heavy ships' timbers for use in mine sweepers and other wooden crafts. Gamble Brothers received the Army and Navy "E" Award for its accomplishments in the military effort.

Some of the products developed by Gamble Brothers are:—

Laminated gunstock blanks, laminated last blocks, laminated bowling pins, laminated barrel staves and heading, laminated oars and paddles, and many other items which could be produced by the gluing of wood.

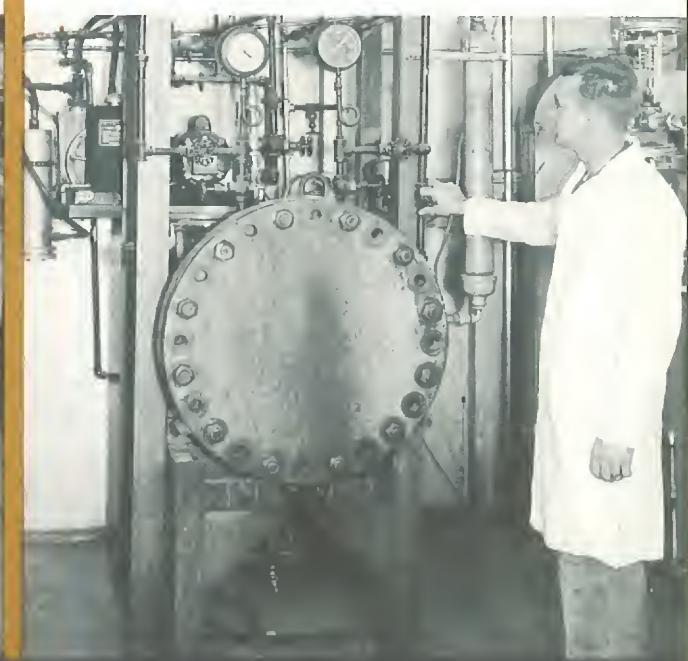
Testing strength of wood in toughness.



Measuring moisture content of lumber with electrical meter.

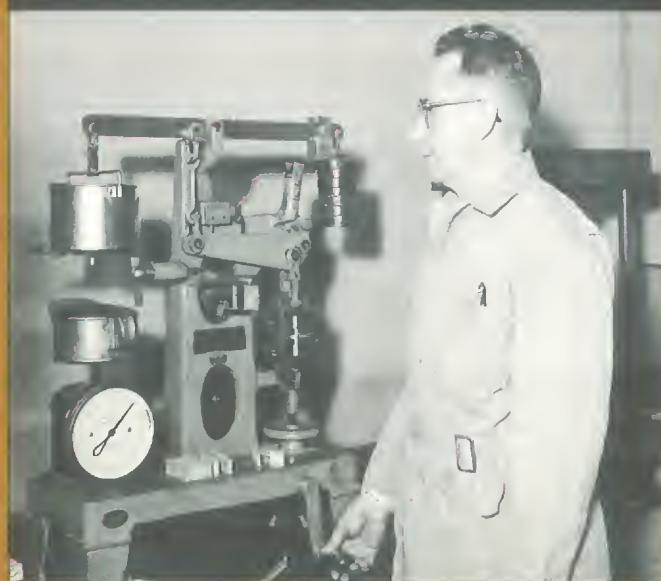


Vacuum-pressure autoclave used for impregnation of wood and for testing quality of glue joints.



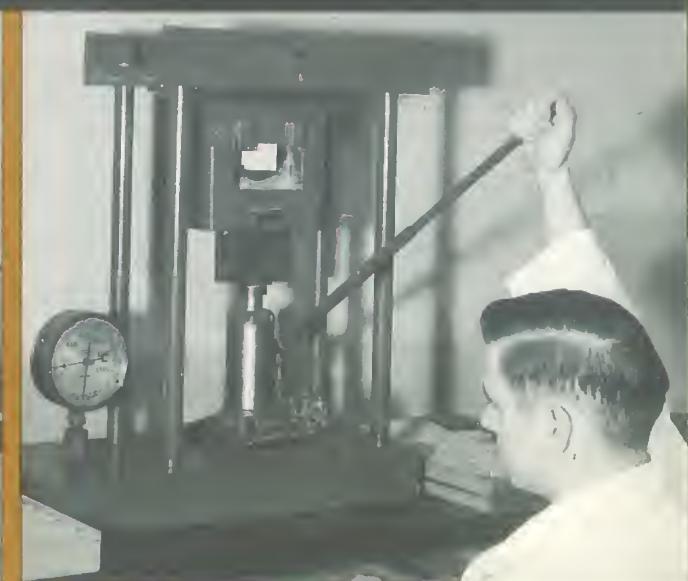
DEVELOPMENT

...a vital function of Gamble Brothers

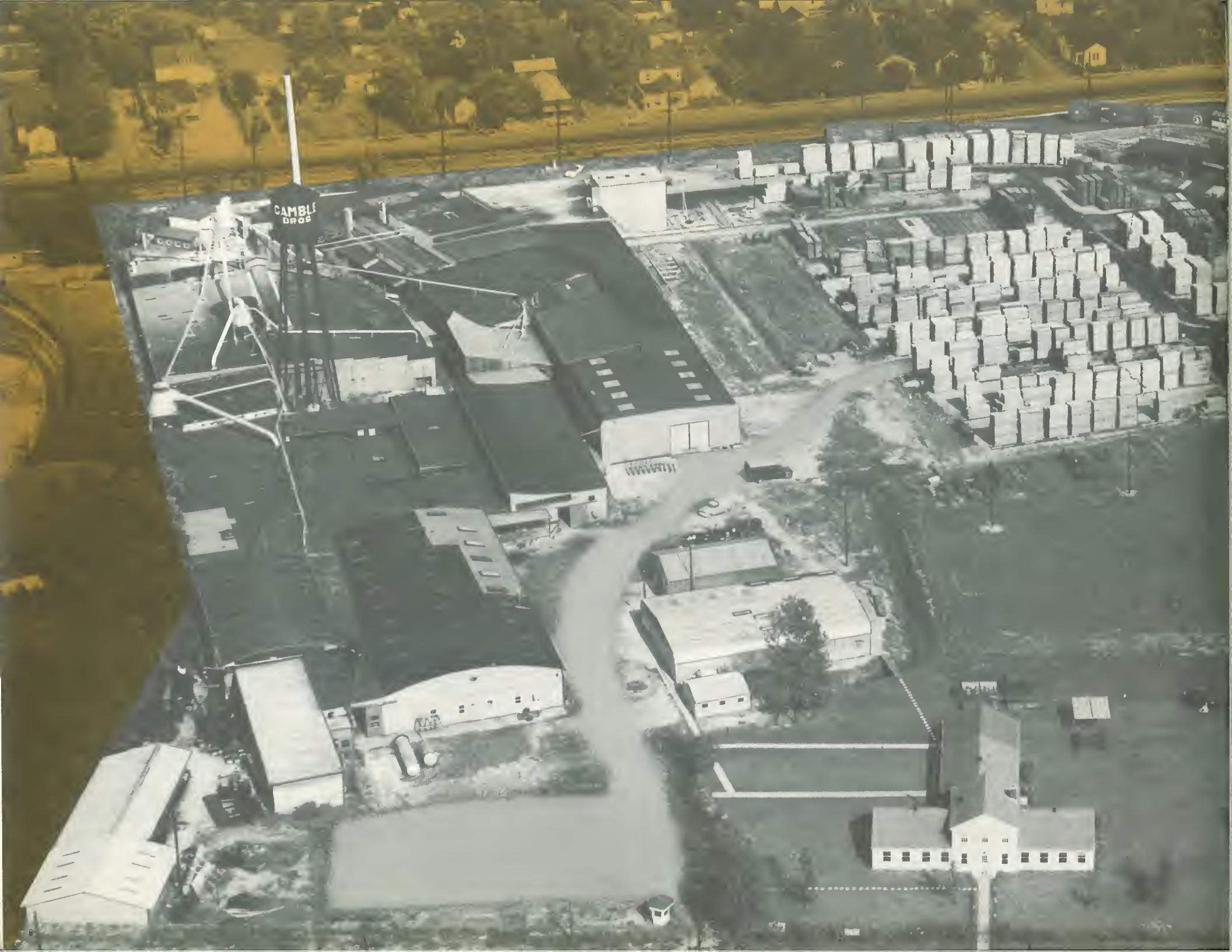


Temperature measurement with Potentiometer in hydraulic hot-plate press used for development of plywood products.

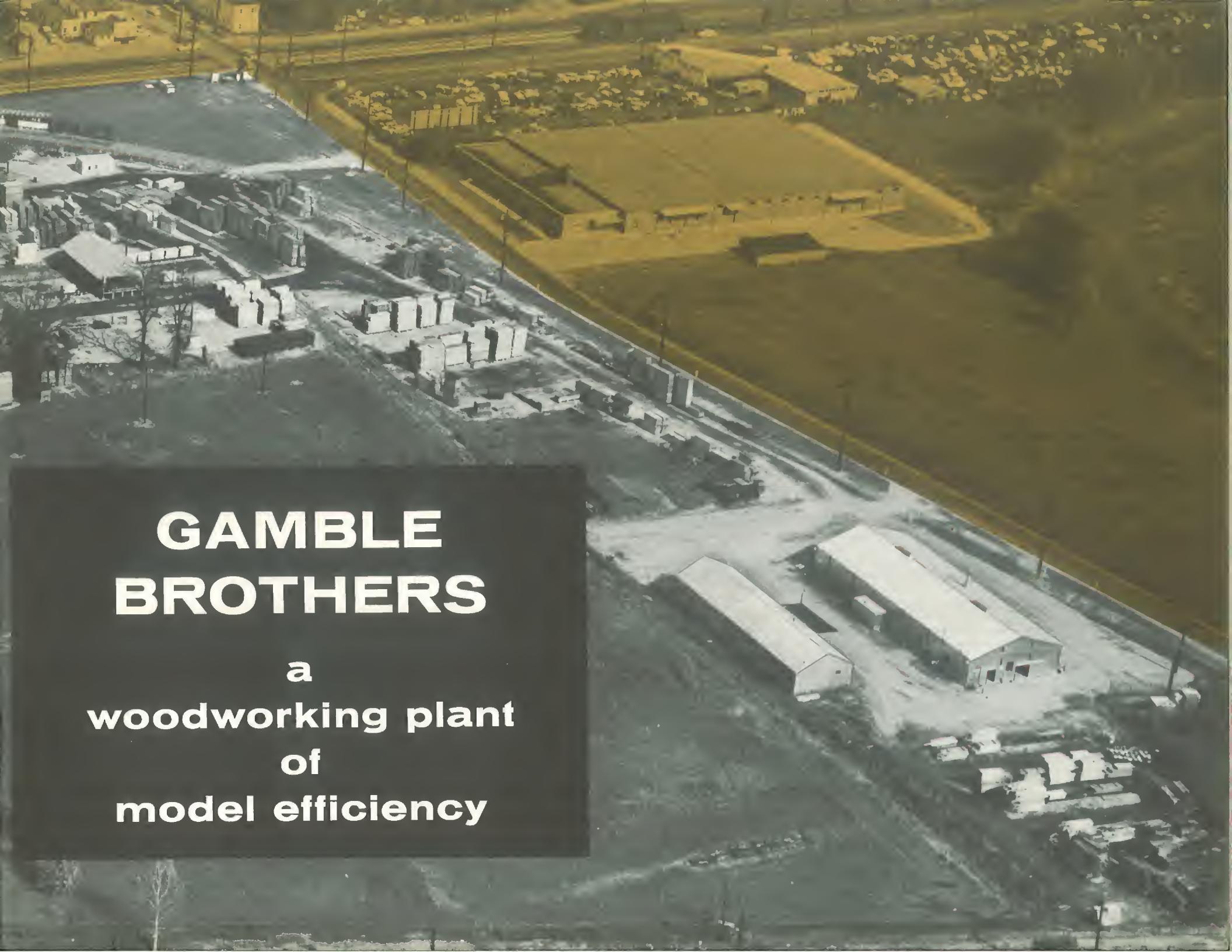
Shear testing of glue joints in plywood.



Block-shear testing of quality of glue joints.



**GAMBLE
BROTHERS**
a
woodworking plant
of
model efficiency





Mechanical stacking of lumber for air drying.



Loading one of a battery of dry kilns.



Shaping furniture parts on automatic shaper.



Inspection and packaging of completed wood parts.



Kiln dried lumber in heated storage shed.



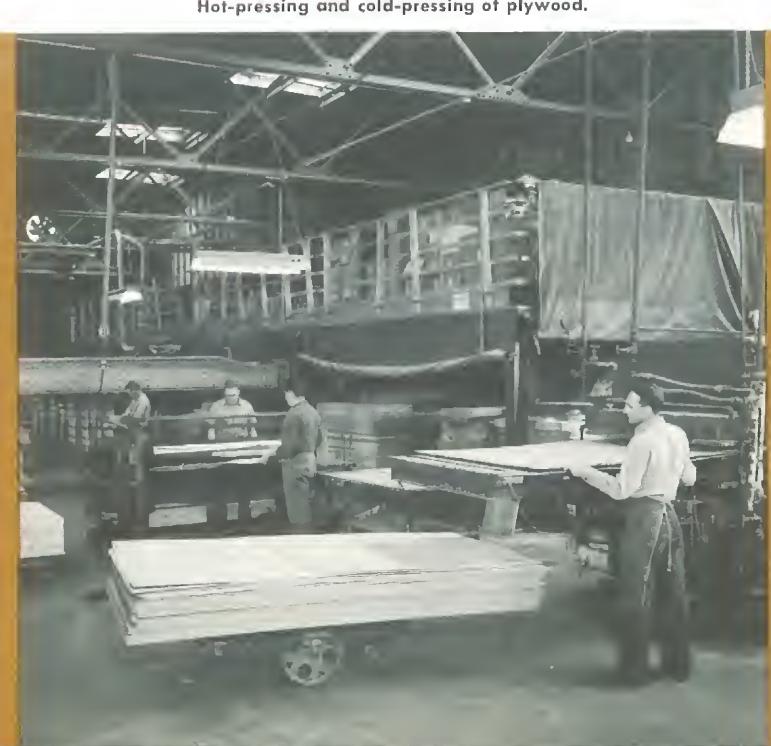
Unit for continuous ripping, jointing and edge gluing lumber.



Processing wood parts in Machine Room.



General view in laminating department.



Hot-pressing and cold-pressing of plywood.



Pattern and fixture shop.



The Gamble brothers in 1892. From left to right: Hoyt, Logan, William and James.



Gamble Brothers' present management group.



GAMBLE BROTHERS **wood engineers since** **1892**

The evolution of Gamble Brothers from a wholesale hardwood lumber company in 1892 to its present position as a world leader in wood engineering may seem unusual. Actually, the evolution was quite logical because the early Gamble brothers were interested in wood research right from the very beginning.

In 1894 they acquired the plant of a planing mill. This mill had manufactured poplar beveled siding and poplar mouldings for interior trim. The Gamble brothers were dissatisfied with the waste of the lumber that was unsuitable for siding and mouldings. They had the idea of cutting lumber to length needed by the customers and shipping it cut-to-length.

Customers soon found it was difficult and costly to dry short length lumber. Gamble Brothers installed drying rooms at Louisville. These drying rooms were among the early forerunners of the modern dry kilns for accelerated seasoning of lumber.

Building on the pioneering spirit of the original owners, the company has been continuously improving its facilities to meet the ever-increasing need for the solving of wood problems. **TODAY, THIS UNIQUE ORGANIZATION OF
WOOD ENGINEERS AND SKILLED TECHNICIANS MAKES
A WIDER VARIETY OF WOOD PRODUCTS THAN ANY OTHER U.S. WOODWORKING COMPANY.**



Curved plastic seat (masonite core)

SEATING



Fully machined chair seat frame



Bar stool top



Fully machined chair parts



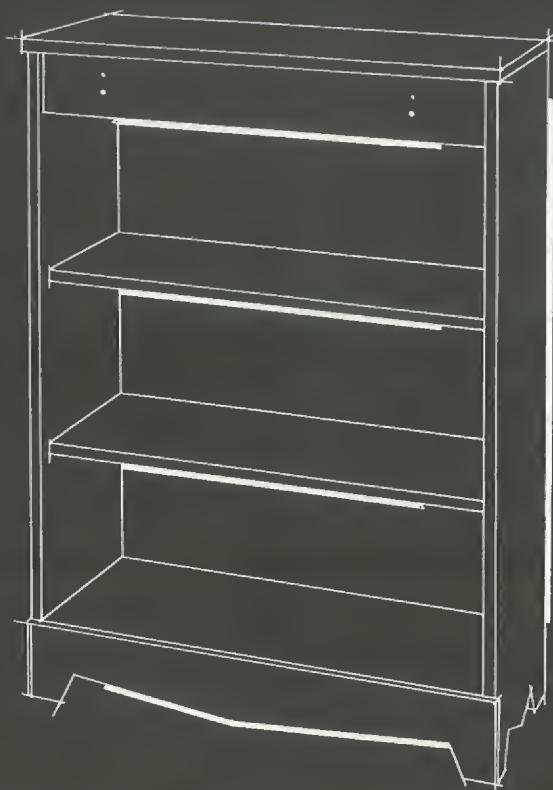
Chair seat



School desk top



Machined parts for bookcase



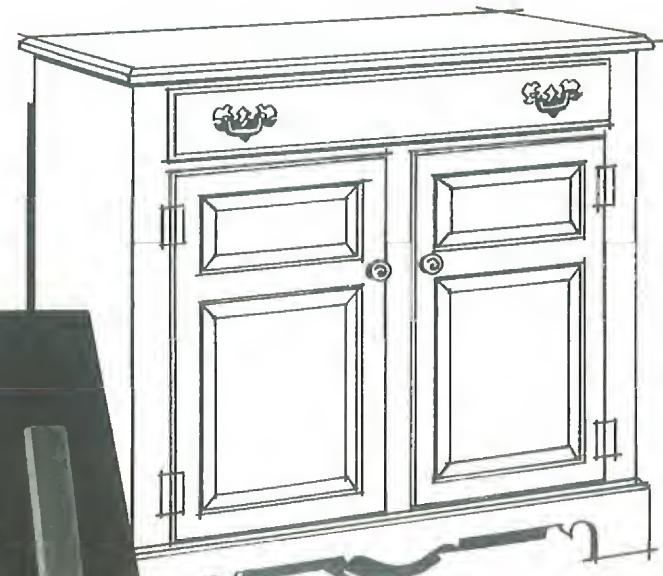
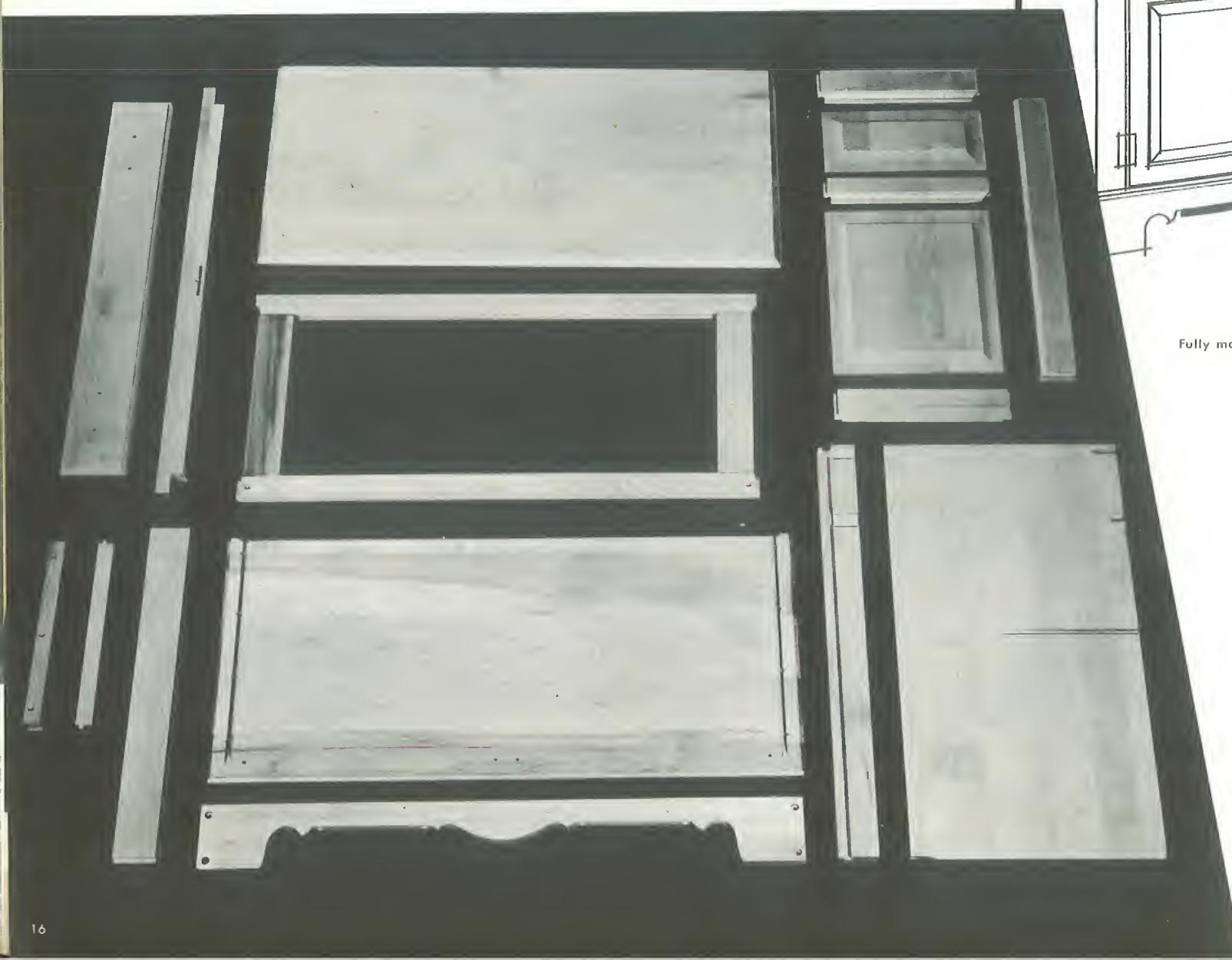
(Inset: Application of intricate edge moulding)

CASE GOODS



Machined plywood

CASE GOODS



Fully machined parts for chest



Various turnings and mouldings for furniture

OCCASIONAL, INSTITUTIONAL AND KITCHEN

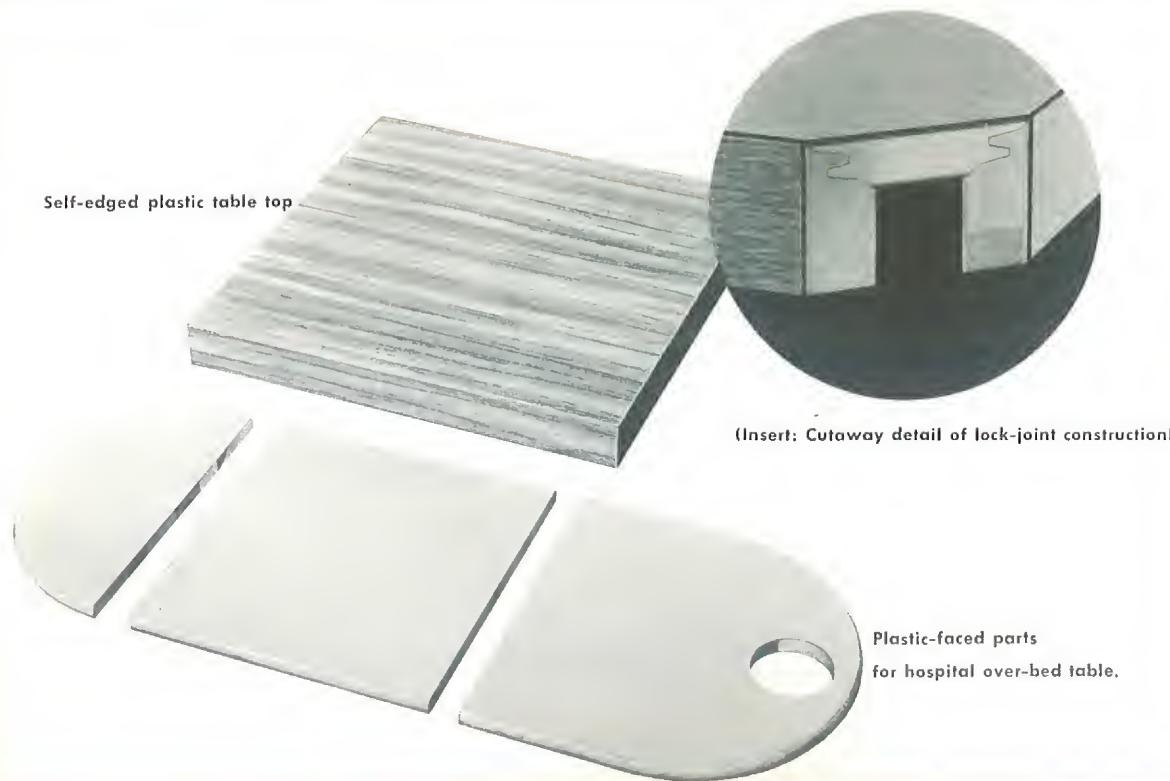


Variously machined wood parts



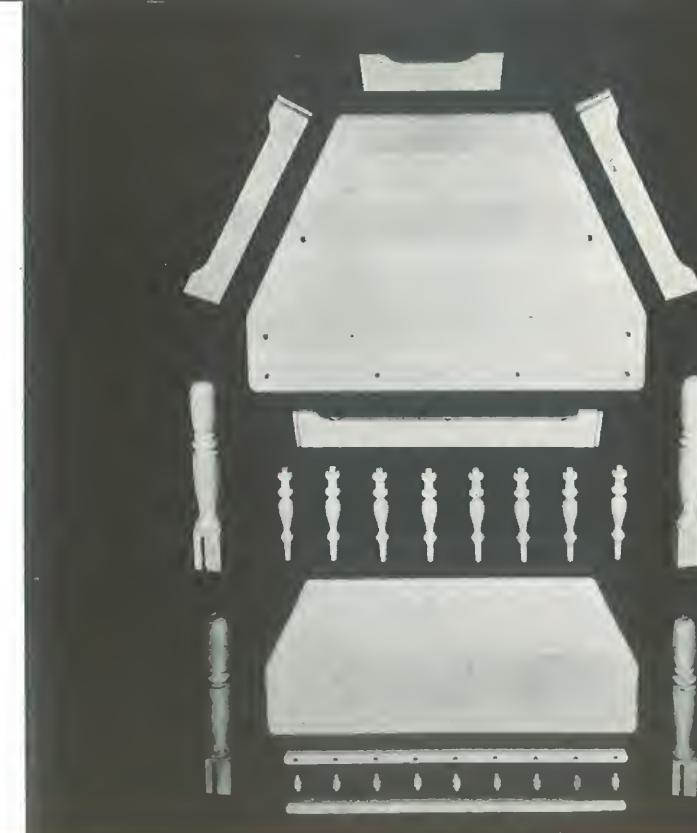
Occasional table top
(Shaped and routed for center insert)

Self-edged plastic table top



(Insert: Cutaway detail of lock-joint construction)

Plastic-faced parts
for hospital over-bed table.



OCCASIONAL, INSTITUTIONAL, KITCHEN

Top and back splash for kitchen appliances



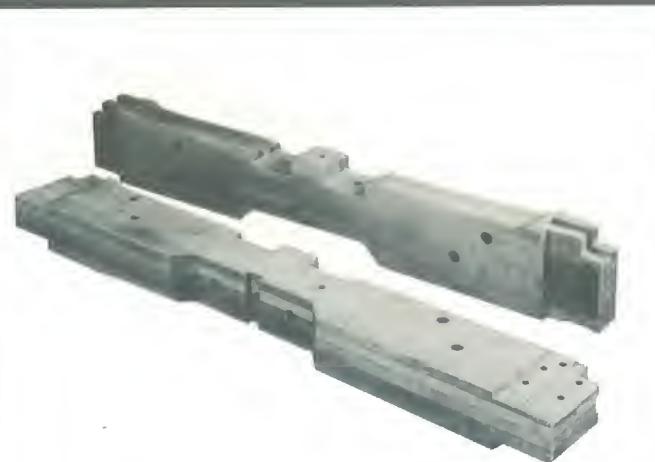
SPECIAL FURNITURE and ARCHITECTURAL CORESTOCK



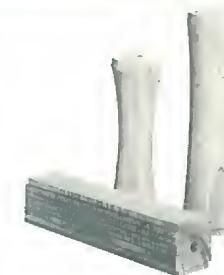
Long length block cores with glued end joints for architectural and related woodwork applications. (This type construction permits fabrication of any length panel desired)



Winder roller for textile mill processing
(36" x 5" diameter)



Laminated contact shoe beams for subway cars
(56" x 7½" x 4¼")



Industrial rollers
(6", 8" and 10" diameter)

Laminated deflector bars (57" x 7" x 2½")

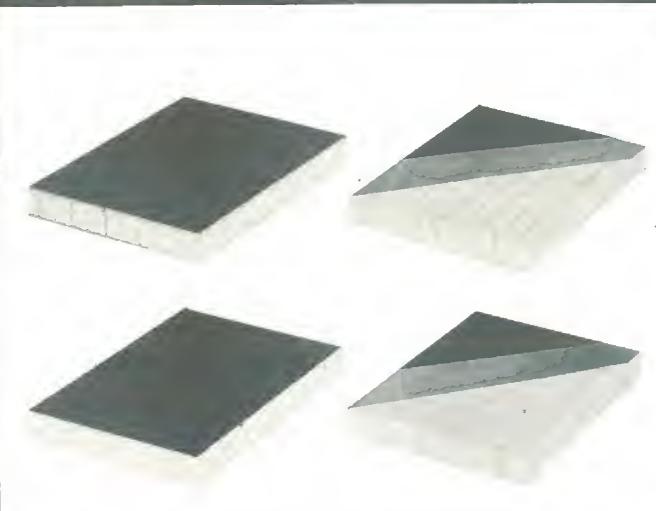
Plywood faced with chemically resistant synthetic rubber (48" x 96")

65" hard maple laminated kickbacks for bowling lanes





Insulating panel of high
wet strength corrugated paper



Sandwich type core with foamed plastic



6' x 3' x 1' balsa insulating panel
with hardwood plywood face and back

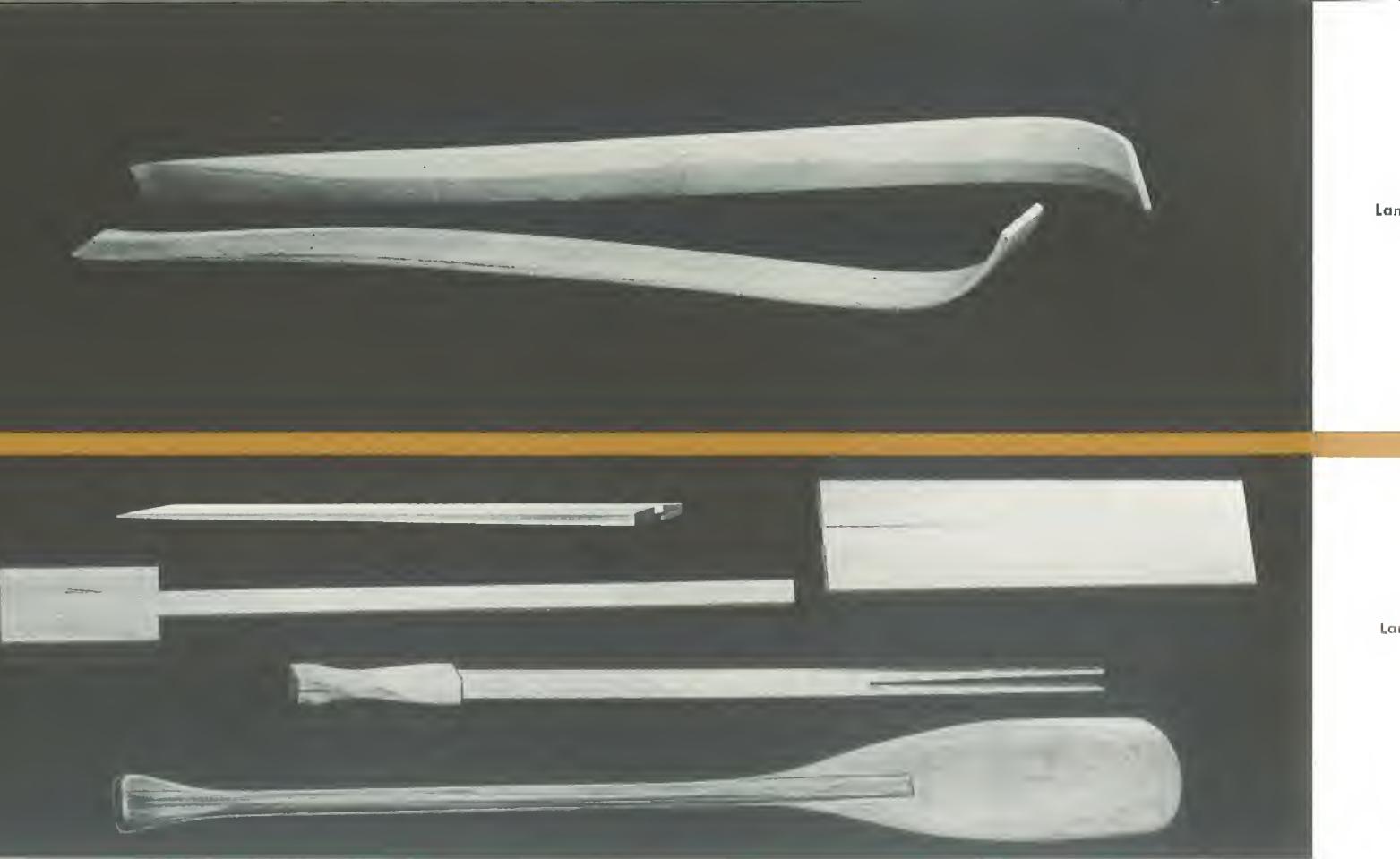
INDUSTRIAL WOOD PARTS



Pressing table top
(light and dark strips to give a decorative appearance)

Curved laminated industrial machined parts





Laminated hickory ski blanks

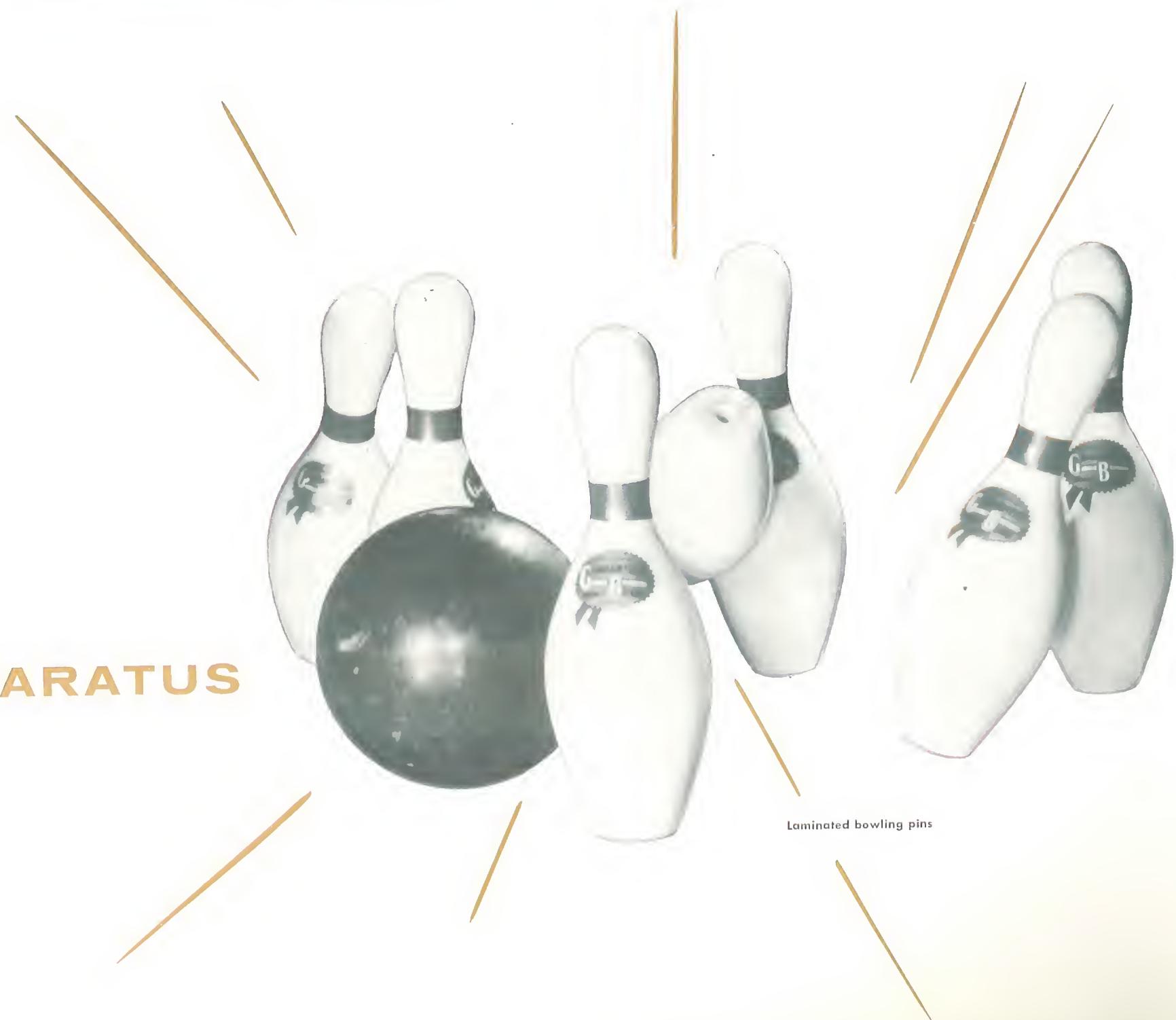
Laminated paddle (Patent # 2399106)

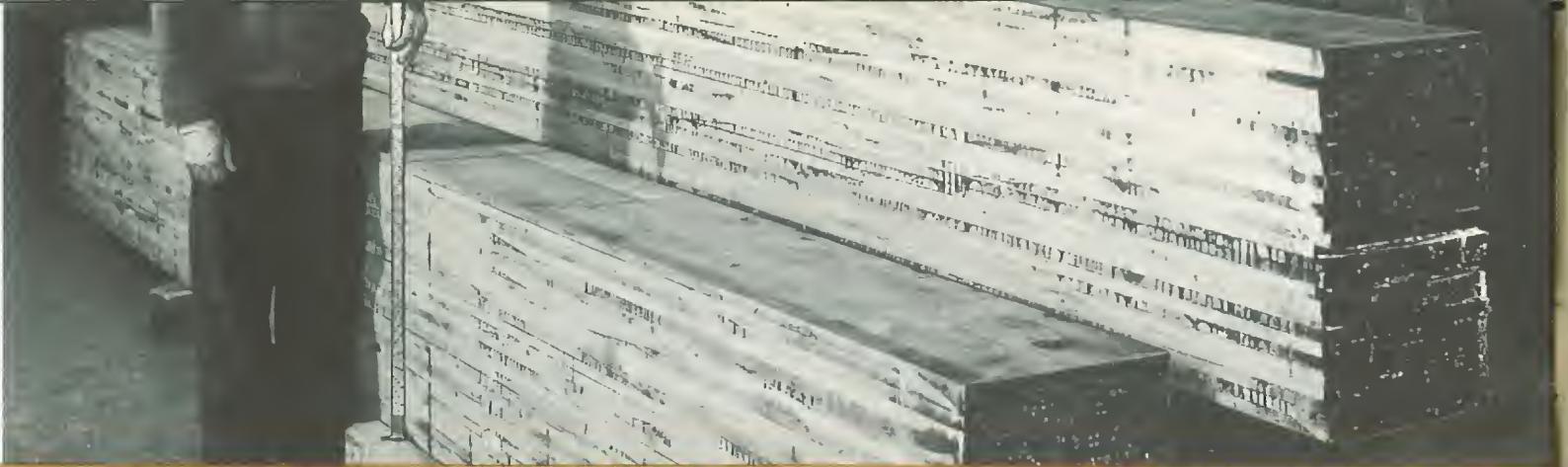
LAMINATED ATHLETIC



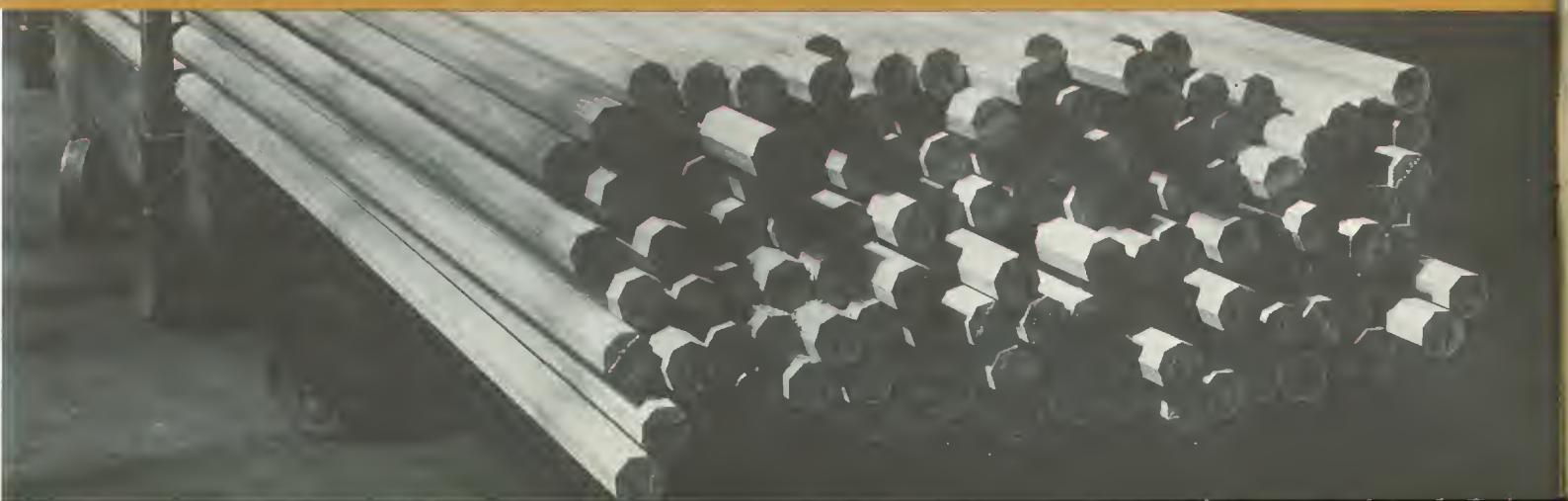
Laminated gun stock blanks

APPARATUS





LAMINATES FOR



Structural timbers

Ship frame

Aircraft carrier decking

EXTERIOR USE

Well sucker rods



